ZOOLOGY, PAPER-I

mammals

Amphioxus belongs to:

Cyclostomata

Cephalochordata

fishes

(a)

(d)

(a)

(d)

(xiii)

(b)

(e)

(b)

(e)

birds

None of these

Hemichordata

None of these



FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2009

S.No.	
R.No.	

ZOOLOGY, PAPER-I

		:	ZUUL	UGY, PAPEK-I		
TIME A	ALLOWED:	(PART-II)		NUTES URS & 30 MINUTES		
NOTI	after	30 minutes.	T-I (M	CQ) on separate Answer Sheet which shall be taken back e options/answers will not be given credit. PART – I (MCQ) COMPULSORY) d fill in the appropriate box on the Answer Sheet. (20) vacuole? reproduction (c) osmoregulation None of these lesenchymal amoebocytes called: microscleres (c) myocytes None of these occur for the first time in: Porifera (c) Coelenterata None of these a can replace its lost or damaged body parts is called: regeneration (c) reclamation None of these Porifera (c) Annelida None of these helminthes are commonly known as: ring worms (c) segmented worms None of these Polychaeta (c) Echinodermata None of these		
			-	PART – I (MCQ) COMPULSORY)		
Q.1.	Select the be	est option/ans	swer an	d fill in the appropriate	e box	on the Answer Sheet. (20)
(i)	What is the f (a) respira (d) digestic		ntractile (b) (e)	reproduction	(c)	osmoregulation
(ii)	Specules are (a) sclerob (d) collence	olasts	pecial m (b) (e)	microscleres		
(iii)	True nerve c (a) Protozo (d) Annelio	oa	on cells (b) (e)	Porifera None of these	(c)	Coelenterata
(iv)	The process (a) reform (d) reconst	ation	organisn (b) (e)	n can replace its lost or d regeneration None of these	amag (c)	· ·
(v)	(a) Protozo (d) Mollus	ca	(b) (e)	Porifera None of these	(c)	Annelida
(vi)		es the locomo podium dium	tory org (b) (e)	neuropodium		notopodium
(vii)	Worms below (a) round w (d) earth w	worms	ım platy (b) (e)	ring worms		
(viii)	Bipinnaria is (a) Coelen (d) Cestod		of: (b) (e)	•	(c)	Echinodermata
(ix)		of circulatory elminthes poda	system (b) (e)	Annelida	(c)	Porifera
(x)	The two com (a) colour	<u> </u>	` '		can b	e easily identified by their: size
(xi)	Sweat glands (a) all bird	s are epiderma	` '	s and are found in: reptiles and mammals None of these	(c)	mammals only
(xii)	Sternum is a	-	(0)	140He of these		

amphibians

Urochordata

(c)

(c)

<u>zoo</u>	LO		APER-I						
(xiv	v)	(a) S	rochordates or tunicate Sea cucumber Sea star	s are r (b) (e)	narine a Sea sq None o	uirts		ly kno (c)	own as: Sea urchin
(xv)	(a) 1	lobes are found in: fore brain medulla	(b) (e)	mid br None o		e	(c)	hind brain
(xv	i)	(a) t	umber of cervical verte two eleven	ebrae i (b) (e)	four			(c)	nine
(xv	ii)	(a) 1	h hearts are absent in: fishes mammals	earts are absent in: es (b) amphibians (c) reptiles mmals (e) None of these oh capillaries coming from intestinal villi are called:		reptiles			
(xv	iii)	(a) '	ymph capillaries comin veins lymph duct	g from (b) (e)		nodes	}	d: (c)	lacteals
(xiz		(a) (d) '	many caudal vertebrae 1 – 2 7 – 8	(b) (e)	3-4 None of	of thes		()	5 – 6
(xx	.)	(a) (nner membrane of the t chorion pericardium	wo foo (b) (e)	etal mer amnior None o	n	-	es, bir (c)	ds and mammals is called: peritoneum
]	PART	<u>' – II</u>		
NOT	E:	(ii) (iii)	from EACH SECTI	ON. A	All quest	tions c r any	arry EQU A part of th	L ma	ting at least TWO questions arks. empted question will not be
Q.2.	(a) (b) (c)	Wha	te an essay on "Protozo at are coral reefs? Give lenterates show some r	an ac	disease count or	f the v	arious form		
Q.3.	(a) (b) (c)	Wha	en an account of the ca at is adaptation? Briefly ine the following terms Polymorphism	y discu	100 F	sitic a		-	(4)
Q.4.	(a) (b) (c)	Give	cribe the water vasculate an account of human at is conjugation? Brief	diseas	ses caus	ed by	lermata. nematodes.		(10) (7) (3)
Q.5.	Wr (i)		rt notes on: sion in gastropods (ii) Fla	me cell	s FION		picul	es (iv) Coelom
Q.6.	(a) (b) (c)	Wha	te an essay on "Flight a at is cleavage? Describ at are the functions of t	e diffe	tions of rent typ	birds'	·.	with e	example, found in chordata. (6) (4)
Q.7.	(a) (b) (c)	impl Desc	lantation. cribe various types of l	neart fo	ound in	vertel	orates.		mals according to the mode o (8) (8) tity of yolk they contain. (4)
Q.8.	Wr	ite sho (i) (iii)	rt notes on: Uriniferous tubule of Functions of the skin		nmal	(ii) (iv)	Neuron Structure o	of the	(5+5+5+5) bone

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ZOOLOGY, PAPER-II



FEDERAL PUBLIC SERVICE COMMISSION COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BPS-17 UNDER THE FEDERAL GOVERNMENT, 2009

S.No.	
R.No.	

ZOOLOGY, PAPER-II

	ALLOWED: (PART-I)	30 MINUTES	MAXIMUM MARKS:20
	(PART-II)	2 HOURS & 30 MINUTI	ES MAXIMUM MARKS:80
NOTI	after 30 minutes.	RT-I (MCQ) on separate Ansiing of the options/answers v	swer Sheet which shall be taken back will not be given credit.
		PART – I (MCQ (COMPULSORY	
Q.1.	Select the best option/an	swer and fill in the approp	riate box on the Answer Sheet. (20)
(i)	Which part of the brain do (a) cerebellum (d) medulla	(b) cereberal hemispher (e) None of these	
(ii)	From which of the follow (a) fat(d) starch	ing is urea formed? (b) glycerol (e) None of these	(c) protein
(iii)	Where are hormones dest (a) adrenal gland (d) pancreas	royed? (b) kidney (e) None of these	(c) liver
(iv)	During the beating of the (a) left atrium (d) right ventricle 	heart, in which region will the (b) left ventricle (e) None of these	ne highest pressure develop? (c) pulmonary artery
(vi)	(a) glycerol and amino(d) sugar and fatty acids		fatty acids (c) sugar and amino acids e
(12)	(a) white blood cells(d) red blood cells	(b) muscle cells (e) None of these	(c) pancreatic cells
(vii)	Which secretion, release digestion?	d into the alimentary canal	l, contains no enzymes but speeds up f
	(a) bile(d) pancreatic juice	(b) intestinal juice(e) None of these	(c) mucus
(viii)	Which of the following not (a) amino acids (d) lipase	ormally enters the blood as it (b) glycogen (e) None of these	t passes through the pancreas? (c) insulin
(ix)	Which of the following is (a) blood group	an example of discontinuous (b) height	s variation? (c) intelligence
(x)	(a) golgi apparatus	(b) mitochondria	secretary cell than in a non-secretary cell? (c) ribosomes
(xi)	(d) pinocytotic vessicle.Which of the following is(a) ribose	s (e) None of these found in both DNA and mes (b) thymine	ssenger RNA? (c) sugar-phosphate chain

an amino acid molecule (b) enzyme for protein synthesis (c) information from the DNA

None of these

(d) double helix structure (e) None of these What is carried by a molecule of transfer RNA?

(e)

sequence of codons

(xii)

(d)

ZOC	LO	GY,	PAPER-II					
(xi		(a) (d) Whice	populations of all the spe biosphere ecosystem ch of the following is no	(b) (e) It recycl	community None of the	/ ese	(c)	ecosphere
		(a) (d)	carbon water		energy None of th	ese	(c)	sulphur
(xv)	In me (a) (d)	ost ecosystems, the great secondary consumers decomposers	(b)	ount of end herbivores None of th		nrough (c)	the: carnivores
(xv	i)	During (a) (d)	ng which phase of meios prophase I telophase II	(b)	chiasmata t metaphase None of th	II	(c)	metaphase I
(xv	ii)		proposed the mutation t Lamarck Wallace	(b)	of Evolution Darwin None of th		(c)	de Vries
(xv	iii)	During (a) (d)	ng which stage of meios prophase I anaphase II	(b) j	omologous prophase I None of th	[nes sepa (c)	arate? anaphase I
(xi	x)	In a l (a) (d)	DNA molecule, the base thymine and cytosine thymine and guanine	(b)		nd guanine	(c)	adenine and thymine
(xx)	Trias (a) (d)	ssic and Jurassic periods Palaeozoic era Proterozoic era	(b)	luded in the Mesozoic of the None of the	era	(c)	Coenozoic era
					PAR	<u> T – II</u>		
NOI	E:	(i) (ii) (iii		R que	stions from	PART-II.	All que	stions carry EQUAL marks. mpted question will not be
Q.2.				13	2			pelieved to synthesize proteins. (12)
Q.3.	(b) (a)	•	plain how carbon dioxid scribe the structure and t					(8) (12)
Q.4.	(b) (a)		w is the nerve impulse g scribe prophase-I of mei				labeled	(8) I diagrams. (10)
	(b)		we an account of digestic			-		(10)
Q.5.	(a)(b)(c)	Wł mo	scribe the structure and that is haemoglobin? Honoxide combine with ha fferentiate between pinor	ow it emoglo	carries ox obin?	ygen in the		(10) d? What happens when carbo (7) (3)
Q.6.	(a) (b)	Wł	we an account of Mendel nat is vestigial organ?				-	en as an evidence of evolution (10)
Q.7.	(a) (b)		nat are biogeochemical c ven an account of Lamar	-		-	cle in	detail. (10) (10)
Q.8.	Wr	ite sh (i) (iii	ort notes on: Natural Selection) Hormones		(ii) (iv)		omal at	(5+5+5+5) perration
